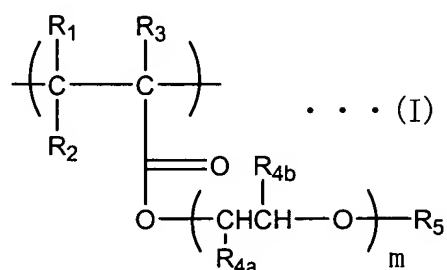


AMENDMENTS TO THE CLAIMS

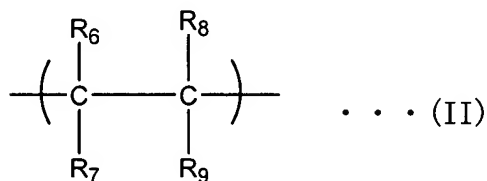
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original): A solid polymer electrolyte comprising an electrolyte salt, and a copolymer in which a block chain A containing a repeating unit represented by a formula (I) shown below:

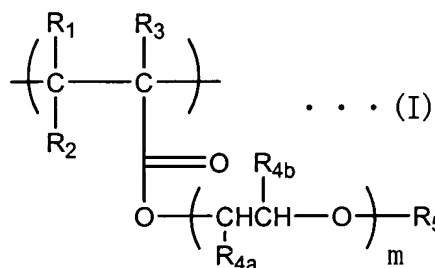


(wherein, R₁ to R₃ each represent, independently, a hydrogen atom or a hydrocarbon group of C1 to C10, R₁ and R₃ may be bonded together to form a ring, R_{4a} and R_{4b} each represent, independently, a hydrogen atom or a methyl group, R₅ represents a hydrogen atom, a hydrocarbon group, an acyl group, or a silyl group, m represents an integer from 2 to 100, and individual R_{4a} and R_{4b} groups are either identical or different), a block chain B containing a repeating unit represented by a formula (II) shown below:

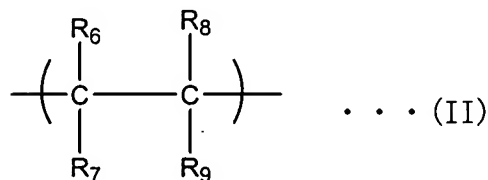


(wherein, R₆ to R₈ each represent, independently, a hydrogen atom or a hydrocarbon group of C1 to C10, and R₉ represents an aryl group), and a block chain C are arranged in a sequence B, A, C.

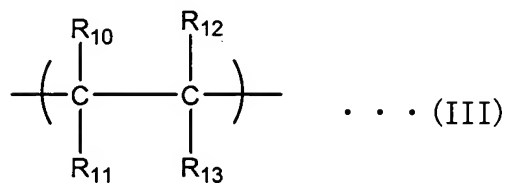
Claim 16 (original): A copolymer in which a block chain A containing a repeating unit represented by a formula (I) shown below:



(wherein, R₁ to R₃ each represent, independently, a hydrogen atom or a hydrocarbon group of C1 to C10, R₁ and R₃ may be bonded together to form a ring, R_{4a} and R_{4b} each represent, independently, a hydrogen atom or a methyl group, R₅ represents a hydrogen atom, a hydrocarbon group, an acyl group, or a silyl group, m represents an integer from 2 to 100, and individual R_{4a} and R_{4b} groups are either identical or different), a block chain B containing a repeating unit represented by a formula (II) shown below:



(wherein, R₆ to R₈ each represent, independently, a hydrogen atom or a hydrocarbon group of C1 to C10, and R₉ represents an aryl group), and a block chain C containing a repeating unit represented by a formula (III) shown below:



(wherein, R₁₀ to R₁₂ each represent, independently, a hydrogen atom or a hydrocarbon group of C1 to C10, and R₁₃ represents an aryl group or a heteroaryl group) are arranged in a sequence B, A, C.

Claim 17 (original): A copolymer according to claim 16, wherein said block chains A to C are bonded together in a B-A-C sequence.

Claim 18 (currently amended): A copolymer according to ~~either one of claim 16 and claim 17~~, wherein a degree of polymerization of a repeating unit represented by said formula (I) is at least 10.

Claim 19 (currently amended): A copolymer according to ~~any one of claim 16 through claim 18~~, wherein a degree of polymerization of a repeating unit represented by said formula (II) is at least 5.

Claim 20 (currently amended): A copolymer according to ~~any one of claim 16 through claim 19~~, wherein a degree of polymerization of a repeating unit represented by said formula (III) is at least 5.

Claim 21 (currently amended): A copolymer according to ~~any one of claim 16 through claim 20~~, wherein a value of m in said formula (I) is an integer from 5 to 100.

Claim 22 (currently amended): A copolymer according to ~~any one of claim 16 through claim 20~~, wherein a value of m in said formula (I) is an integer from 10 to 100.

Claim 23 (currently amended): A copolymer according to ~~any one of claim 16 through claim 22~~, wherein said group R_{13} in said formula (III) is an aryl group, and a degree of polymerization of a repeating unit represented by said formula (III) is at least 5.

Claim 24 (currently amended): A copolymer according to ~~any one of claim 16 through claim 23~~, wherein a molar ratio $((I)/((II)+(III)))$ between repeating units represented by said formula

(I), and a combined total of repeating units represented by said formula (II) and repeating units represented by said formula (III) is within a range from 1/30 to 30/1.

Claim 25 (currently amended): A copolymer according to ~~any one of claim 16 through claim 24~~, wherein a number average molecular weight of said copolymer is within a range from 5,000 to 1,000,000.

Claim 26 (currently amended): A copolymer according to ~~any one of claim 16 through claim 25~~, which exhibits a microphase separated structure.

Claim 27 (currently amended): A method of producing a copolymer according to ~~any one of claim 16 through claim 26~~, which utilizes a living radical polymerization in which a transition metal complex is used as a catalyst, and an organohalogen compound comprising 1 or more halogen atoms is used as an initiator.

Claim 28 (original): An ion conductive film containing a polymer comprising a polymer segment (P1) that displays ionic conductivity and a polymer segment (P2) that displays no ionic conductivity, wherein said film exhibits a network-type microphase separated structure.

Claim 29 (original): An ion conductive film according to claim 28, wherein said polymer comprising P1 and P2 is a polymer in which said segments are arranged in a P2, P1, P2 sequence.